

Registration: Make checks payable to South Tahoe Public Utility District. **Mail to:** (Checks Only) 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150

Credit Card Registration: Go online to http://www.stpod.us/AAM_Workshop.html for easy and secure credit card registration!

Confirmation E-mail: You will receive confirmation e-mail as proof of your registration.

Ground Transportation: Reno International Airport to Harrah's Lake Tahoe: \$38 round trip.
<http://www.southtahoeexpress.com/>

Workshop Site/Hotel Accommodations: Beautiful **Harrah's Lake Tahoe**, at Stateline and Hwy 50 (Lake Tahoe Blvd). Stateline NV 89449

Room reservations: Call 800-455-4770. A limited block of rooms will be held at a discounted rate of \$89 plus tax until 5:00 p.m. **February 5, 2006.** Mention group code: S03EPA when making your reservation.

Registration Fee (Includes 2 full breakfasts, Lunch both days, evening 1 cocktail reception, and refreshments at all breaks) Only \$250!

Cancellation Policy: Cancellation request must be received in writing before 5:00 p.m., February 4, 2006. The cancellation fee is \$50. No refunds will be issued for cancellations after February 5, 2006

CEU Information: For details, call (530) 543-6258

Workshop Schedule

- ♦ **March 7:** Hotel Check In
- ♦ **March 8:** 7:00 – 8:00 a.m. Registration
8:00 a.m. – 5:00 p.m. Workshop (Continental breakfast and lunch provided)
- ♦ **March 9:** 8:00 a.m. – 4:00 p.m. Workshop
(Continental breakfast provided – lunch on your own 12:00 – 1:00 p.m.)

About Our Presenters

Mr. Steve Allbee - USEPA Project Director, Gap Analysis; primary author, USEPA's The Clean Water and Drinking Water Infrastructure Gap Analysis; 25 years EPA – development of financing programs; BA, MA, MPA.

Mr. Brenton Marshall - Principal Consultant and Deputy Service Group Manager - Management Consulting, GHD; Infrastructure Management experience includes over 50 projects in the USA, Australia and New Zealand, covering water, wastewater, irrigation, gas, electricity generation and transmission, parks and gardens, roads, rail and building assets. BCom, BEng(Hons).

Mr. Duncan Rose - Vice President & Technical Director - Asset Management Group, GHD LLC; Former city/county manager; co-author of WEF's textbook, Managing the Water and Wastewater Utility; 30 years state & local government management; Adjunct Faculty, Florida State University, Askew School of Public Policy; BA, MSP, MAPA.

South Tahoe Public Utility District
1275 Meadow Crest Drive
South Lake Tahoe, CA 96150
www.stpod.us

March 8 – 9, 2006 Harrah's Lake Tahoe Stateline, Nevada

Advancing Asset Management In Your Utility: A "Hands-on" Workshop

"America's water infrastructure is critical to our nation's environmental, economic, and social health. To help sustain our infrastructure, we should all be striving towards the goal of making Advanced Asset Management concepts and technologies the normal and expected condition of the service everywhere".

Benjamin H. Grumblin
Assistant Administrator for Water,
USEPA

**NEW: 13-15 CEU Contact Hours
Credit Card Registration Available
Day 2 Lunch Added!
Cocktail Reception Added!**

Sponsored by:

- Environmental Protection Agency
- South Tahoe Public Utility District
- USEPA:
- ♦ Office of Wastewater Management
- Contract Content Providers:
- ♦ GHD LLC Advanced Asset Management
- ♦ Parsons Water & Infrastructure



Advancing Asset Management In Your Utility: A “Hands-on” Workshop



Harrah's Lake Tahoe

The Challenge:

Over the past half century, America has spent trillions of dollars building some of the finest infrastructure that history has ever seen. Indeed, this infrastructural investment has played a substantial role in the sustained wealth, prosperity, and quality of life of our country. But in many communities, this infrastructure is severely stressed from over-use, under-funding of maintenance and renewal, and aging.

A “hands-on” workshop for utility managers and key field personnel

A comprehensive approach to managing our capital assets is overdue - one that brings “state of the practice” advanced asset management (“AAM”) concepts, tools, techniques, and technologies to bear on managing for cost-effective performance. *This approach, first and foremost, is one that focuses relentlessly on providing sustained performance of value to the customer at the lowest life-cycle cost and at an acceptable level of risk to the organization.*

The Focus:

The great French author, Victor Hugo, once observed, “An invasion of armies can be resisted, but not an idea whose time has come.” Public sector managers have been managing assets for decades. However, it is clear that what we have been doing in the past will not be sufficient to address the growing and increasingly complex challenges that lie ahead.

Practical, advanced techniques for better managing assets have been developed and refined in both the private sector in the US and in water and wastewater agencies around the world. Management thinking is centered on long-term effectiveness, service sustainability, and effective environmental management. *How can these advanced asset management concepts, tools and techniques be most effectively transferred into the water and wastewater industry, more specifically, into your agency? Where to start? How to proceed? How to select appropriate tools?*

The Workshops:

The AAM challenge for US agency officials is one of “knowledge transfer”. **For this reason, these workshops have been designed as an extensive “hands-on” experience.** Each workshop:

- ◆ Incorporates a real world “storyline” to realistically demonstrate an advanced asset management way of approaching difficult asset-driven problems.
- ◆ Is built around **participant exercises** that demonstrate the concepts, techniques and tools of advanced asset management.
- ◆ Is centered on **“case-based” mentoring** by expert asset management practitioners.

The agenda is built around five core questions (see agenda, right panel). *The workshops focus on demonstrating, step-by-step, how an agency would select and deploy “Best Appropriate AM Practices” that are best suited to that agency.*

Agenda Highlights Morning March 8:

Introductions

Storyline, Background And Context

- ◆ Introduction Of Storyline
- ◆ The Changing Utility Industry
- ◆ The Emerging Utility Of Tomorrow

Overview Of Fundamental Concepts And Core Practices

- ◆ A Definition Of AAM
- ◆ The AAM Paradigm
- ◆ The Nine Building Blocks Of AAM
- ◆ Managing The Asset Base's “Potential To Fail”
- ◆ Payoffs And Benefits, Downsides

Storyline And Worksheets - Tom's Very Bad Day

Core Question 1: What Is The Current State Of My Assets?

- ◆ The Role Of Expert Judgment – The “Delphi Group”
- ◆ Building A “Process Layout” Schematic
- ◆ Creating The “Asset Hierarchy”
- ◆ Defining The “Data Standard”
- ◆ Initial Condition Analysis, Remaining Physical Life Valuation/Asset Consumption/Financial Disclosure From a GASB Perspective

Afternoon March 8:

Core Question 2: What Is My Required “Sustainable” Level Of Service (LOS)?

- ◆ What Is “LOS”? Why Do It?
- ◆ How It Works (Strategic Level Versus Operations Level)
- ◆ A “Balanced Scorecard” Approach

Core Question 3: Which Assets Are Critical To Sustained Performance?

- ◆ Understanding How My Assets Can Fail
- ◆ What The Likelihood Of Failure Is
- ◆ What The Consequences Are

How To Measure Our Agency's “Business Risk Exposure”?

Core Question 4: What Are My Best Minimum Life-Cycle-Cost CIP And O&M Strategies?

- ◆ What Alternative “Treatment” (Management) Options Are Feasible?
- ◆ Which Is The Best Strategy – “Optimal Renewal Decision Making”?

Discussion, Q & A And Feedback

Morning March 9:

Core Question 4: O&M (Continued)

- ◆ Using AAM To Drive Operations And Maintenance
- ◆ Moving Systematically Into Reliability Centered And Condition-Based Maintenance

Core Question 4: CIP (Continued)

- ◆ Using AAM To Drive The CIP
- ◆ Strategic CIP Validation
- ◆ Building Your First Asset Management Plan (“AMP”) For The System
- ◆ Balancing CIP And O&M Requirements
- ◆ The Strategic CIP Business Plan

Core Question 5: What Is My Best Long-Term Funding Strategy?

- ◆ So, Valuation Really Does Matter?
- ◆ Determining A Sustainable Renewal Funding Level
- ◆ Effectively Telling The Funding Story
- ◆ The “Whole Of Business” Perspective – Using AAM For Rate Setting & Budgeting

Afternoon March 9:

Focus Topic 1: Deploying An AAM Program

- ◆ The Three Fundamental Deployment Strategies
- ◆ “Gap Analysis” Benchmarking & Developing The AAM Improvement Program
- ◆ The Human Side
- ◆ The Political Side
- ◆ Implementation Work Plans – Lessons Learned

Focus Topic 2: Meeting The IT Challenge - Toward An Enterprise Asset Management System (“EAMS”)

- ◆ Defining “Work Processes”
- ◆ Defining “System Functionality”
- ◆ Defining Data Needs And Data Flows
- ◆ Developing An EAMS Work Plan

Closing Summary, Questions, Comments, Evaluation, Discussion